Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: **Harve Black No. 2**Mine ID: **181**

Navajo AUM North Central Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.039.0020

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Part I **Site Identification, Location and Status** Site Names and ID numbers as applicable **Mine ID:** 181 Map ID: NC29 **CERCLIS:** NNN000909248 Navajo Abandoned Mine Land Reclamation Program: NA-0217 Local name / Aliases: Harvey Black No. 2; Spencer No. 1; Harvey Black; Harvey Black Mine Chapter and local area: Oljato State: AZ County: Navajo Lat/Long: 36.9880496747 N / -110.241098742 W **Nearby road and highway:** Indian Route 6410 **Local Post Office:** Oljato, AZ Surface Land Status: check one or more and provide ownership and contact information below **Tribal Trust Land Public lands Private Tribal Fee Land Bureau of Land Mgmt Allotment** State Fee land **Subsurface Mineral Rights:** No information on subsurface mineral rights ownership was found in the EPA/AUM Database. **Claim and operator information:**

Historical documents identified the operator of the mine in 1953 and 1962 as Harve and Ada Black, from 1954 to 1955 as Mr. Spencer AKA Monument Valley Uranium Company AKA C.L. Spencer, and from 1962 to 1963 as A and B Mining Company. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 181

Highest gamma radiation measurement: 40,538 counts per minute (cpm)

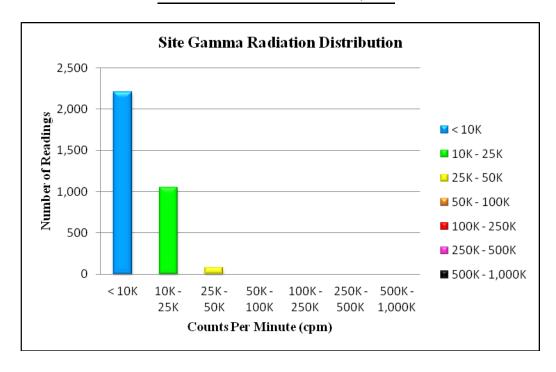
Background Average: 7,439 cpm **Two Times Background:** 14,878 cpm

Describe any other radiological measurements:

A total of 3,342 gamma radiation measurements were collected from the mine site, ranging from 5,740 cpm to 40,538 cpm. Maximum levels of approximately 25,000 cpm were found in the vicinity of the waste rock. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation Statistics	
Number of Readings	3,342
Minimum (cpm)	5,740
Maximum (cpm)	40,538
Mean (cpm)	10,291
Median (cpm)	9,102
Standard Deviation	4,201



Part III Status of Reclamation and Mine Waste

Mine ID: 181

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: Yes

NAMLRP Project Number: NA-0217

NAMLRP Mine features: 1 Portal

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits:

None Observed

Waste Piles:

Possible waste/ tailings pile, large yellow boulders w/ black staining

Pits:

None Observed

Shafts:

None Observed

Other Debris and Mine Features:

None Observed

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):

0 to 200 feet: None Observed

200 feet to 0.25 mile: 300 ft S - Horse pen

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None Observed

0.25 miles to 4 miles: 2 mi NE - Well Filling Station (Gouldings); 2.5 mi NE - Reservoir (Gouldings); 3 mi NW - Water Tank (224)

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Harve Black No. 2 mine claim consists of an area of 35,398 m². The mine was identified as being operational from 1954 to 1962. While operational, the mine had a total reported production volume of 375 tons. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity? Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?
Yes

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? Yes

Structures:

Were any structures observed within 200 feet of the mine?

Potential Drinking Water Sources:

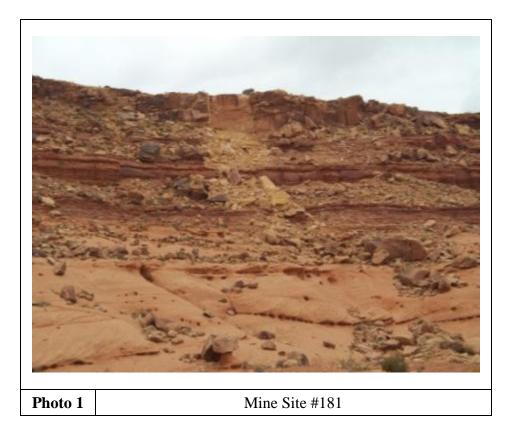
Were any potential drinking water sources observed within 4 miles of the mine? Yes

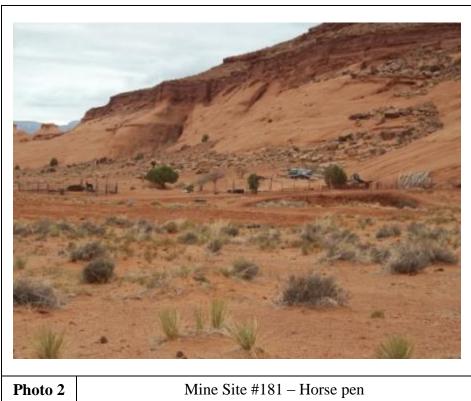
Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

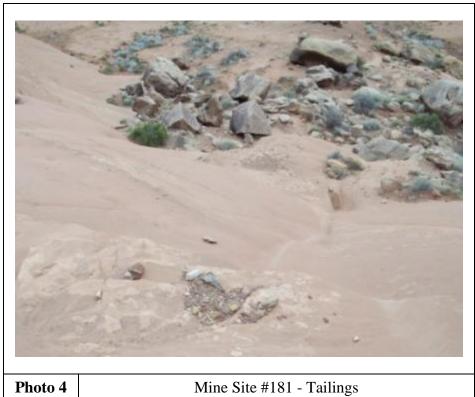
Yes

Part VI Photos





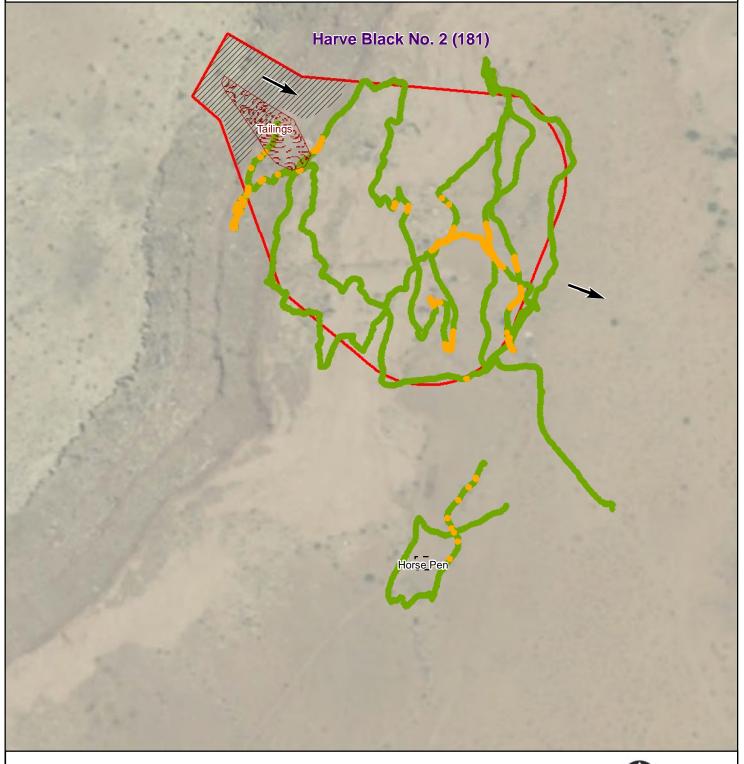




Part VII Contact Reports and Information

Name:	Eugene Esplain
Title or official role (if any):	Navajo EPA Superfund Program
Telephone number:	(928) 871-7331
Address:	PO Box 2946, Window Rock, AZ 86515
Information provided:	Lead Regulatory Agency
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Harve Black No. 2 (181)
Oljato Chapter, Navajo Nation

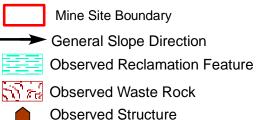


Gamma Radiation Measurements

- < 2X Backgound</p>
- > 2X Background

Measured as counts per minute (cpm)

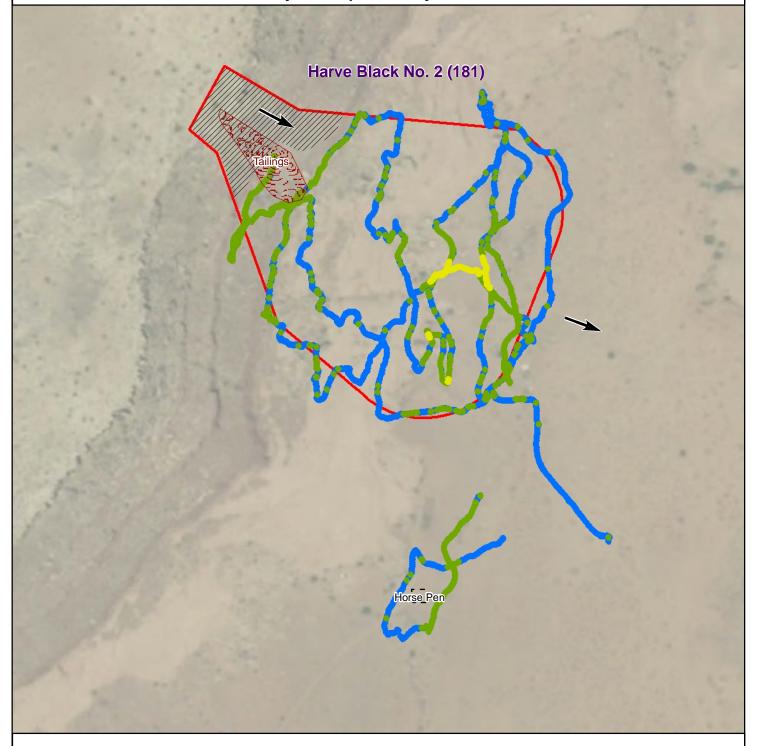
Average background 7,439 cpm



Observed Adit



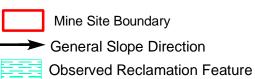
Figure 2 - Gamma Radiation Measurements Harve Black No. 2 (181) Oljato Chapter, Navajo Nation

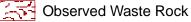


Gamma Radiation Measurements

- 0 10,000 cpm
- 10,000 25,000 cpm
- 25,000 50,000 cpm
- 50,000 100,000 cpm
- 100,000 250,000 cpm
- 250,000 500,000 cpm
- 500,000 1,000,000 cpm

Average background 7,439 cpm





Observed Structure

Observed Adit

Measured as counts per minute (cpm)

